

Title (en)  
METHOD AND GENERATING PLANT FOR SHIPS HAVING A SHAFT GENERATOR

Publication  
**EP 0097185 B1 19870304 (EN)**

Application  
**EP 83900020 A 19821210**

Priority  
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Abstract (en)  
[origin: WO8302099A1] A method for supplying current to ships having at least one synchronous machine (1) as a shaft generator comprises distributing the power from the shaft generator(s) to two supply mains, a first mains (7), wherein voltage and frequency equal the voltage and frequency of the shaft generator, and a second mains (6), wherein voltage and frequency are kept at a constant level. The first mains comprising 85-95% of the power consumption is used for supplying current to electric motors, pumps, compressors, ventilating and cooling systems etc., and the second mains is used for supplying current to navigation and communication systems, steering engine, lighting and similar installations requiring constant voltage and frequency. The generating plant for performing the method therefore comprises a three-phase rectifier circuit (3) and a DCAC converter circuit (5) inserted between the shaft generator and the second mains. The result is fuel savings as well as substantially reduced wear of the consumers connected to the first mains, and these consumers are made to adjust themselves automatically so that they perform only the necessary work. Furthermore, such a generating plant is cheaper to install than the known plants because frequency and voltage regulations on part of the mains are avoided.

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